



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010624
CERTIFICATION DATE: May 23, 2014
DATE RECERTIFICATION DUE: November 19, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

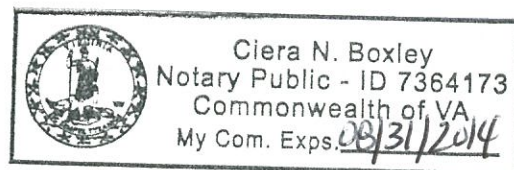
Timmy L. Neece, Jr.
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of May, 2014, by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH
TLN

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 5/23/2014**

Instrument Serial Number: 010624 **As of 23-May-14**

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
23-May-14	23-May-14	DBH (21250)	CERTIFIED.
06-Dec-13	06-Dec-13	DBH (21250)	REPLACED UPS BACK-UP BATTERY. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
17-Jun-13	17-Jun-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
07-Jan-13	07-Jan-13	TLN (25387)	CERTIFIED.
30-Nov-12	30-Nov-12	DBH (21250)	CERTIFIED.
19-Oct-12	19-Oct-12	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
08-Feb-12	08-Feb-12	TLN (25387)	REPLACED KEYBOARD. REPLACED DRY GAS STANDARD. CERTIFIED
18-Aug-11	18-Aug-11	SED (24178)	CERTIFIED.
17-Mar-11	17-Mar-11	RJP (22428)	CALIBRATED AND CERTIFIED.
30-Sep-10	30-Sep-10	RJP (22428)	REPLACED DRY GAS STANDARD. REPLACED PRINTER. CERTIFIED.
09-Apr-10	09-Apr-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
19-Feb-10	23-Oct-09	RJP (22428)	REPLACED PRINTER RIBBON.
23-Oct-09	23-Oct-09	RJP (22428)	CERTIFIED.
05-May-09	05-May-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
19-Dec-08	19-Dec-08	NMJ (22392)	CERTIFIED.
01-Dec-08	01-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
TLN

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010624 Worksheet Start Date 5/23/2014
Location DFS-Central
Address
DFS Technician Donald Hall License No. 21250

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 754 Reference Barometer (mm HG) 755
Reference Barometer(RB)Serial # 009109 RB Calibration Due 8/1/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.298	0.289	0.306	Sample 2	0.301
Precision		sample min	sample max	Sample 3	0.301
0		0.301	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.099	0.096	0.102	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.099
0.001		0.099	0.100		

Dry gas standard Lot No. (with tank no.) AG217702-28

☐ Replaced dry gas standard (+O-ring)

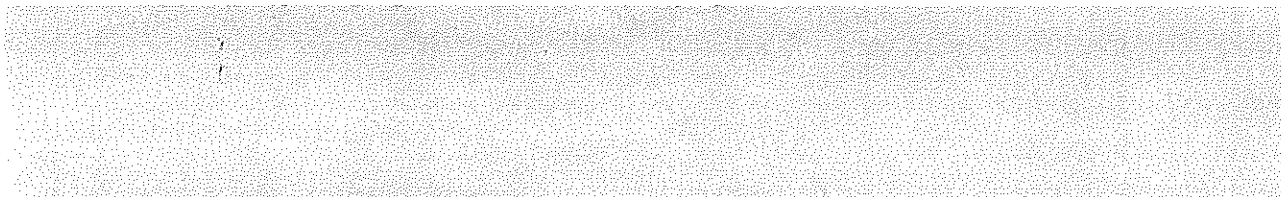
☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:



Instrument Serial Number

010624

Certification Date

5/23/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.248
0.250	0.248	0.240	0.255	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0.001		0.247	0.248		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

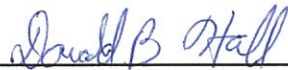
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.079	0.076	0.082	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

5/23/14

Issuing Analyst



Date

5/27/14

DBH
TLV

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010624 Test Number: 974

Test Date: 05/23/2014 Test Time: 14:13 EDT

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 2961225012-09 Exp Date: 11/01/2014

Tank Pressure: 105 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:14
BLK	0.000	14:14
CHK	0.248	14:15
BLK	0.000	14:17
CHK	0.247	14:18
BLK	0.000	14:19
CHK	0.247	14:20
BLK	0.000	14:22

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH
TL✓

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010624 Test Number: 975

Test Date: 05/23/2014 Test Time: 14:24 EDT

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 2951215012-04 Exp Date: 11/01/2014

Tank Pressure: 492 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:24
BLK	0.000	14:25
CHK	0.149	14:26
BLK	0.000	14:28
CHK	0.149	14:28
BLK	0.000	14:30
CHK	0.149	14:30
BLK	0.000	14:32

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
TLW

Department of Forensic Science

Serial Number: 010624 Test Number: 976

Test Date: 05/23/2014 Test Time: 14:34 EDT

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0771308012-01 Exp Date: 05/01/2015

Tank Pressure: 100 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:35
BLK	0.000	14:36
CHK	0.080	14:36
BLK	0.000	14:38
CHK	0.080	14:38
BLK	0.000	14:40
CHK	0.080	14:40
BLK	0.000	14:42

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH
TLV

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010624 Test Number: 977

Test Date: 05/23/2014 Test Time: 14:43 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 159 psi Barometric Pressure: 754 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:44
BLK	0.000	14:45
CHK	0.019	14:45
BLK	0.000	14:47
CHK	0.019	14:47
BLK	0.000	14:49
CHK	0.019	14:49
BLK	0.000	14:51

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

DBH
+LW

Department of Forensic Science

Serial Number: 010624 Test Number: 978

Test Date: 05/23/2014 Test Time: 14:53 EDT

Dry Gas Target: 0.298

Lot Number: AG322702-09 Exp Date: 08/15/2015

Tank Pressure: 125 psi Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:53
CHK	0.301	14:54
BLK	0.000	14:56
CHK	0.301	14:57
BLK	0.000	14:58
CHK	0.301	14:59

Test Status: *Success*

Calibration CRC: 1F365A21

DBH
TLN

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010624 Test Number: 979

Test Date: 05/23/2014 Test Time: 15:02 EDT

Dry Gas Target: 0.099

Lot Number: AG217702-28 Exp Date: 06/25/2014

Tank Pressure: 105 psi Barometric Pressure: 754 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:02
CHK	0.100	15:03
BLK	0.000	15:05
CHK	0.100	15:06
BLK	0.000	15:07
CHK	0.099	15:08

Test Status: *Success*

Calibration CRC: 1F365A21

INSTRUMENT, TEST,

DFE

HALL, DONALD, B

DFS Central Lab

21250

10/01/2014

05/23/2014

010624

05/23/2014

15:18 EDT

0.00



IntoxNet MIS Report

Report Generated 23 May 2014 at 15:41

DBH
TLN

Test Results

Instrument Serial Number 010624

Test # 000980 Subject Test

Test Location 1 Department of
Test Date 23 May 2014

Test Location 2 Forensic Science
Test Time 15:11
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 23 May 2014 End Time 15:19

Result Time 15:18

Result Date 23 May 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:11

Data Type BLK

Sample Value 0.000

Sample Time 15:12

Data Type CHK

Sample Value 0.099

Sample Time 15:12

Data Type BLK

Sample Value 0.000

Sample Time 15:14

Data Type SUBJ

Sample Value 0.000

Sample Time 15:15

Data Type BLK

Sample Value 0.000

Sample Time 15:16

Data Type SUBJ

Sample Value 0.000

Sample Time 15:18

Data Type BLK

Sample Value 0.000

Sample Time 15:19

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG217702-28

Standard Expiration Date 06/25/2014

Tank Pressure 100

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.18 sec

Blow Volume 1814 cc End-of-Blow Time 15:15

Blow Sample Number 2 Blow Duration 3.61 sec

Blow Volume 1910 cc End-of-Blow Time 15:18

Tamper Evident Stamp 3ceef1a1

Test Status Code 0

Test Status Success